

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1340011

Luminaire Tested: P3A09R159830DE010 E3A301LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1340011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R159830DE010 E3A301LI  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3A301LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

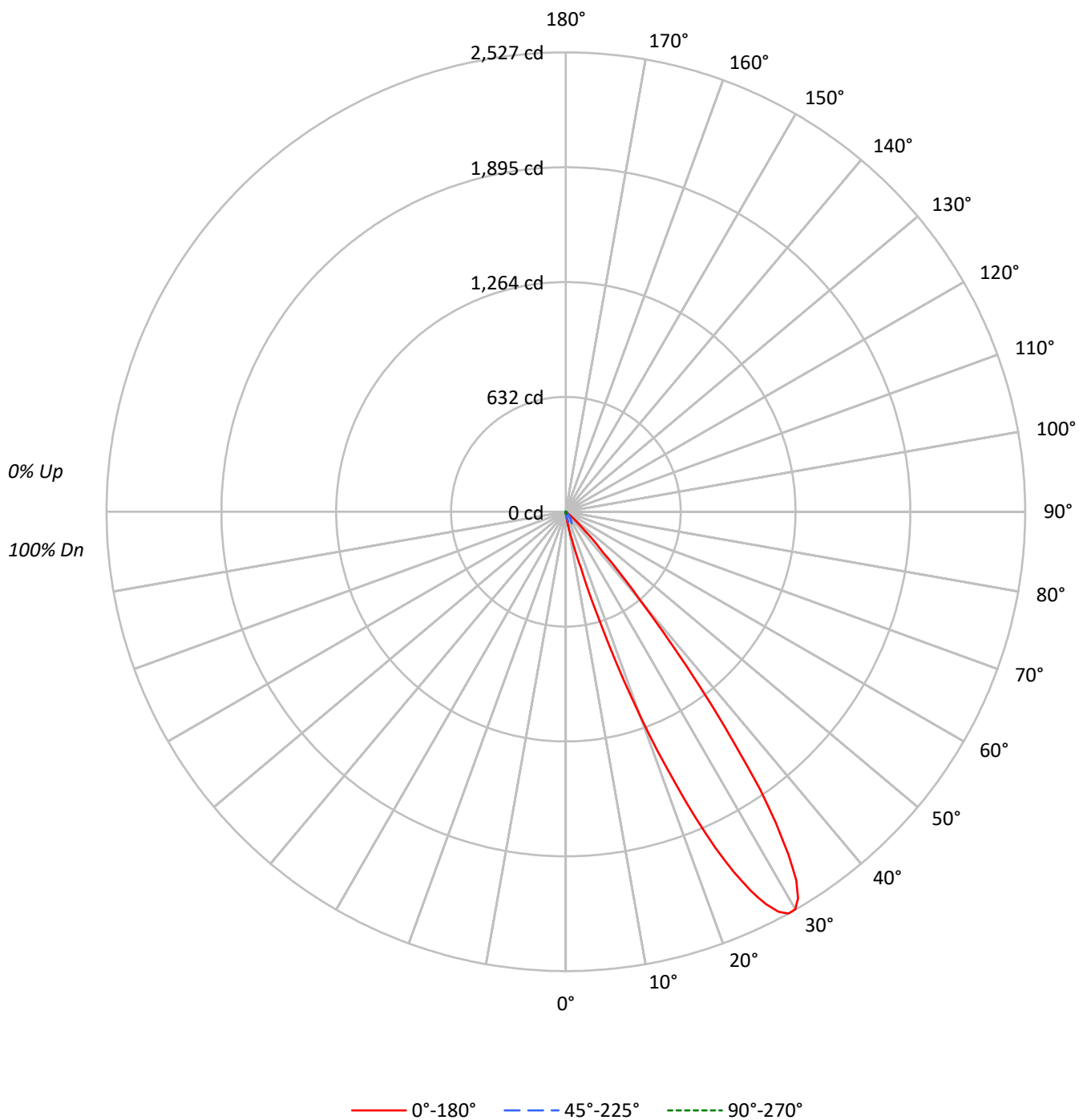
Lumens per Lamp: N/A  
Luminaire Lumens: 276.0 lumens  
Efficiency: N/A  
Efficacy: 25.1 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1340011

CATALOG NUMBER: P3A09R159830DE010 E3A301LI

### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 93  | 93  | 92  |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 85  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 70  | 70  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 63  | 63  | 61  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 57  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 47  | 47  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 42  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 39  | 39  | 37  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 1995   | 1995  | 1995 | 1995 | 1995 |
| 5°  | 4314   | 3192  | 1893 | 1013 | 836  |
| 10° | 19127  | 6034  | 1492 | 423  | 289  |
| 15° | 72350  | 13961 | 1044 | 182  | 114  |
| 20° | 278228 | 19672 | 630  | 70   | 70   |
| 25° | 529095 | 18437 | 315  | 0    | 0    |
| 30° | 639136 | 14888 | 127  | 0    | 0    |
| 35° | 498497 | 10146 | 80   | 0    | 0    |
| 40° | 181912 | 5009  | 86   | 0    | 86   |
| 45° | 46703  | 1489  | 93   | 0    | 155  |
| 50° | 7880   | 171   | 102  | 102  | 273  |
| 55° | 1032   | 0     | 191  | 306  | 497  |
| 60° | 132    | 132   | 351  | 482  | 702  |
| 65° | 156    | 156   | 571  | 675  | 830  |
| 70° | 192    | 192   | 705  | 705  | 833  |
| 75° | 254    | 254   | 932  | 678  | 932  |
| 80° | 0      | 379   | 1010 | 631  | 1010 |
| 85° | 0      | 755   | 2013 | 755  | 755  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46703 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.3    | 0.5       |
| 10°-20°   | 21.1   | 7.7       |
| 20°-30°   | 117.3  | 42.5      |
| 30°-40°   | 113.3  | 41.1      |
| 40°-50°   | 19.7   | 7.1       |
| 50°-60°   | 1.4    | 0.5       |
| 60°-70°   | 0.8    | 0.3       |
| 70°-80°   | 0.7    | 0.2       |
| 80°-90°   | 0.3    | 0.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 139.7  | 50.6      |
| 0°-40°    | 253.0  | 91.7      |
| 0°-60°    | 274.2  | 99.3      |
| 0°-90°    | 276.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 276.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 9    | 9   | 9   | 9    | 9    |      |
| 5°  | 20   | 14  | 9   | 5    | 4    | 4    |
| 15° | 319  | 62  | 5   | 1    | 0    | 142  |
| 25° | 2187 | 76  | 1   | 0    | 0    | 978  |
| 35° | 1862 | 38  | 0   | 0    | 0    | 1071 |
| 45° | 151  | 5   | 0   | 0    | 0    | 162  |
| 55° | 3    | 0   | 0   | 1    | 1    | 5    |
| 65° | 0    | 0   | 1   | 1    | 2    | 0    |
| 75° | 0    | 0   | 1   | 1    | 1    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| 0°    | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    | 9.1   | 9.1  |
| 2.5°  | 13.4   | 12.9   | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   | 12.6   | 12.6   | 12.9  | 11.5 |
| 5°    | 19.6   | 19.6   | 19.3   | 19.6   | 19.6   | 19.3   | 18.8   | 18.5   | 18.5   | 18.0  | 14.5 |
| 7.5°  | 39.2   | 38.7   | 38.7   | 38.1   | 35.4   | 34.6   | 34.1   | 32.8   | 30.3   | 29.8  | 18.8 |
| 10°   | 85.9   | 86.2   | 84.3   | 81.9   | 81.6   | 77.6   | 76.2   | 73.8   | 69.3   | 64.7  | 27.1 |
| 12.5° | 156.0  | 152.5  | 147.9  | 148.2  | 140.4  | 137.7  | 131.6  | 124.8  | 117.9  | 110.6 | 44.6 |
| 15°   | 318.7  | 308.8  | 314.7  | 300.2  | 283.8  | 265.3  | 246.5  | 222.8  | 202.7  | 181.2 | 61.5 |
| 17.5° | 671.2  | 680.9  | 664.5  | 602.5  | 564.3  | 519.5  | 456.4  | 395.5  | 343.4  | 301.5 | 75.2 |
| 20°   | 1192.3 | 1206.5 | 1151.0 | 1097.0 | 1004.4 | 903.4  | 798.2  | 679.0  | 564.9  | 466.1 | 84.3 |
| 21°   | 1410.0 | 1401.5 | 1378.6 | 1292.2 | 1185.3 | 1068.3 | 939.4  | 807.9  | 669.6  | 541.3 | 85.1 |
| 22°   | 1620.5 | 1624.6 | 1571.4 | 1480.9 | 1369.8 | 1240.1 | 1082.8 | 920.3  | 771.3  | 602.5 | 83.8 |
| 23°   | 1830.2 | 1843.1 | 1772.8 | 1687.9 | 1548.0 | 1401.7 | 1219.7 | 1044.4 | 860.2  | 672.5 | 81.1 |
| 24°   | 2024.3 | 2015.5 | 1967.9 | 1861.1 | 1711.6 | 1540.3 | 1351.3 | 1138.6 | 933.2  | 732.4 | 78.9 |
| 25°   | 2186.8 | 2185.7 | 2111.0 | 2007.1 | 1836.1 | 1646.3 | 1438.0 | 1215.7 | 995.8  | 772.9 | 76.2 |
| 26°   | 2319.7 | 2297.9 | 2239.1 | 2112.4 | 1943.5 | 1743.2 | 1509.1 | 1271.8 | 1031.0 | 793.4 | 73.6 |
| 27°   | 2422.2 | 2406.6 | 2327.7 | 2195.9 | 2019.5 | 1798.0 | 1554.8 | 1299.7 | 1047.1 | 800.1 | 70.1 |
| 28°   | 2491.2 | 2474.3 | 2390.3 | 2254.4 | 2061.4 | 1832.4 | 1578.9 | 1311.5 | 1047.1 | 793.6 | 66.9 |
| 29°   | 2526.9 | 2503.8 | 2420.1 | 2274.6 | 2071.0 | 1836.4 | 1573.0 | 1300.0 | 1030.7 | 773.8 | 63.1 |
| 30°   | 2524.2 | 2495.5 | 2407.7 | 2256.3 | 2042.3 | 1803.4 | 1540.0 | 1258.4 | 993.6  | 744.2 | 58.8 |
| 31°   | 2480.7 | 2448.5 | 2350.5 | 2194.5 | 1983.0 | 1741.1 | 1477.7 | 1202.5 | 942.9  | 705.8 | 54.5 |
| 32°   | 2392.4 | 2351.6 | 2256.0 | 2100.6 | 1891.7 | 1647.9 | 1387.2 | 1116.3 | 866.9  | 649.7 | 49.9 |
| 33°   | 2248.5 | 2207.4 | 2104.9 | 1959.1 | 1768.2 | 1529.8 | 1267.2 | 1023.7 | 780.5  | 582.9 | 46.2 |
| 34°   | 2068.4 | 2030.8 | 1942.4 | 1795.6 | 1612.5 | 1380.2 | 1129.2 | 895.6  | 690.8  | 516.6 | 42.2 |
| 35°   | 1862.2 | 1802.3 | 1722.3 | 1606.0 | 1427.5 | 1193.9 | 980.2  | 776.4  | 598.4  | 447.0 | 37.9 |
| 36°   | 1583.2 | 1594.0 | 1509.1 | 1366.8 | 1218.9 | 1035.8 | 830.7  | 647.3  | 500.4  | 381.0 | 34.1 |
| 37°   | 1335.9 | 1319.0 | 1265.1 | 1155.0 | 1026.1 | 844.4  | 696.2  | 548.8  | 421.0  | 322.2 | 30.1 |
| 38°   | 1077.7 | 1081.4 | 1028.5 | 944.0  | 816.2  | 694.3  | 560.3  | 450.8  | 352.2  | 274.1 | 26.3 |
| 39°   | 843.6  | 840.6  | 826.4  | 748.0  | 632.3  | 552.3  | 454.0  | 373.7  | 293.4  | 231.2 | 22.3 |
| 40°   | 635.5  | 640.3  | 607.0  | 559.8  | 492.4  | 426.6  | 361.6  | 298.0  | 242.7  | 194.9 | 17.5 |
| 42.5° | 309.0  | 316.5  | 294.5  | 282.4  | 252.6  | 226.9  | 191.4  | 156.3  | 132.9  | 114.9 | 7.8  |
| 45°   | 150.6  | 146.3  | 144.4  | 138.5  | 131.6  | 117.6  | 104.2  | 89.4   | 78.1   | 67.4  | 4.8  |
| 47.5° | 77.1   | 74.9   | 74.9   | 72.5   | 70.1   | 65.5   | 58.8   | 54.0   | 48.6   | 41.9  | 1.9  |
| 50°   | 23.1   | 22.8   | 22.6   | 22.8   | 22.0   | 22.8   | 23.4   | 23.6   | 21.5   | 21.2  | 0.5  |
| 52.5° | 9.1    | 9.4    | 9.1    | 9.9    | 9.9    | 9.7    | 9.9    | 9.7    | 9.4    | 8.3   | 0.0  |
| 55°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 3.0    | 3.2    | 3.0    | 3.2   | 0.0  |
| 57.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.0  |
| 60°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.0   | 0.3  |
| 62.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 65°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 67.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 70°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 72.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 75°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.3    | 0.3   | 0.3  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.3  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.3 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.3 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.3 |
| 90°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

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CATALOG NUMBER: P3A09R159830DE010 E3A301LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 9.1   | 9.1 | 9.1    | 9.1  | 9.1    | 9.1  |
| 2.5°  | 10.7  | 9.4 | 7.8    | 6.4  | 5.9    | 5.6  |
| 5°    | 11.5  | 8.6 | 5.9    | 4.6  | 4.0    | 3.8  |
| 7.5°  | 12.4  | 7.8 | 4.6    | 3.2  | 2.4    | 2.1  |
| 10°   | 12.9  | 6.7 | 3.5    | 1.9  | 1.3    | 1.3  |
| 12.5° | 12.9  | 5.4 | 2.4    | 1.1  | 0.8    | 0.8  |
| 15°   | 12.6  | 4.6 | 1.6    | 0.8  | 0.5    | 0.5  |
| 17.5° | 12.4  | 3.5 | 1.1    | 0.5  | 0.3    | 0.5  |
| 20°   | 11.5  | 2.7 | 0.5    | 0.3  | 0.3    | 0.3  |
| 21°   | 11.3  | 2.4 | 0.5    | 0.3  | 0.3    | 0.3  |
| 22°   | 10.7  | 2.1 | 0.3    | 0.0  | 0.3    | 0.3  |
| 23°   | 10.2  | 1.6 | 0.3    | 0.0  | 0.0    | 0.0  |
| 24°   | 9.4   | 1.3 | 0.3    | 0.0  | 0.0    | 0.0  |
| 25°   | 8.9   | 1.3 | 0.3    | 0.0  | 0.0    | 0.0  |
| 26°   | 8.3   | 0.8 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 7.5   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 7.0   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 6.2   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 5.4   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 4.3   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 3.5   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 2.4   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.6   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.3   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.8   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 37°   | 0.8   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 38°   | 0.5   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 39°   | 0.3   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 40°   | 0.3   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 42.5° | 0.0   | 0.3 | 0.0    | 0.0  | 0.3    | 0.5  |
| 45°   | 0.0   | 0.3 | 0.0    | 0.0  | 0.3    | 0.5  |
| 47.5° | 0.0   | 0.3 | 0.0    | 0.0  | 0.5    | 0.5  |
| 50°   | 0.0   | 0.3 | 0.3    | 0.3  | 0.5    | 0.8  |
| 52.5° | 0.0   | 0.5 | 0.3    | 0.5  | 0.8    | 1.1  |
| 55°   | 0.3   | 0.5 | 0.5    | 0.8  | 1.1    | 1.3  |
| 57.5° | 0.3   | 0.8 | 0.8    | 1.1  | 1.3    | 1.3  |
| 60°   | 0.5   | 0.8 | 1.1    | 1.1  | 1.6    | 1.6  |
| 62.5° | 0.5   | 1.1 | 1.1    | 1.1  | 1.6    | 1.6  |
| 65°   | 0.5   | 1.1 | 1.1    | 1.3  | 1.6    | 1.6  |
| 67.5° | 0.5   | 1.1 | 1.1    | 1.1  | 1.3    | 1.6  |
| 70°   | 0.5   | 1.1 | 0.8    | 1.1  | 1.3    | 1.3  |
| 72.5° | 0.5   | 1.1 | 0.8    | 0.8  | 1.1    | 1.3  |
| 75°   | 0.5   | 1.1 | 0.8    | 0.8  | 1.1    | 1.1  |
| 77.5° | 0.5   | 0.8 | 0.8    | 0.5  | 0.8    | 0.8  |
| 80°   | 0.5   | 0.8 | 0.5    | 0.5  | 0.8    | 0.8  |





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CATALOG NUMBER: P3A09R159830DE010 E3A301LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.5   | 0.8 | 0.5    | 0.3  | 0.5    | 0.5  |
| 85°   | 0.5   | 0.8 | 0.5    | 0.3  | 0.3    | 0.3  |
| 87.5° | 0.5   | 0.8 | 0.3    | 0.0  | 0.0    | 0.3  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)